AUTHOR INDEX TO VOLUME 11, 1936.

AKABORI, Shiro, and KANEKO, Takeo. Synthese von Imidazolderivaten aus α-Aminosäuren. III. Synthese von zwei höheren Homologen des Histamins 208

AKABORI, Shiro, and NUMANO, Shinji. Synthese von Imidazolderivaten aus α-Aminosäuren. IV. Eine neue Synthese von Histamin 214

AKAMATU, Hideo, and SAMESHIMA, Jitsusaburo. Studies on the oiliness of liquids. II. Friction coefficients of the films of mono- and poly-molecular layers . . 791

AKAMATU, Hideo. See SAMESHIMA, Jitsusaburo.

AKIYAMA, Goroku. See TOYAMA, Yoshiyuki.

ANDO, Toshio. See URUSHIBARA, Yoshiyuki.

ARIYAMA, Kyozo. A theory of the negative adsorption of Debye-Hückel electrolyte . 687

BABA, Toshitomo. See ISHIKAWA, Tetsuya.

FUJISE, Shin-ichiro, and IWAKIRI, Mitsuo. Über die Stereoisomerie des 6-Methyldecahydrochinolins. (Vorläufige Mitteilung.) 293

GOTO, Ryozo. See NODZU, Ryuzaburo.

HAN, Kwan. Studies on the Raman effect of organic substances. VII. Raman effect of furane derivatives 701
See also MATSUNO, Kichimatsu.

HARADA, Masao, and TITANI, Toshizo. Die Geschwindigkeit der Austauschreaktion der Wasserstoffatome zwischen Zucker und Wasser. (Vorläufige Mitteilung.) . 55
Isotopenaustausch zwischen Wasser und einigen organischen Verbindungen. 465
Der Isotopenaustausch zwischen Anilinchlorhydrat und schwerem Wasser. (Vorläufige Mitteilung.) 554

HAYASHI, Mosuke, TSURUOKA, Sinzo, MORIKAWA, Ikuo, and NAMIKAWA, Hirochika. Studies on the derivatives of benzoylbenzoic acids 184

HIRAO, Nenokichi. Synthesis of 4-hydroxy-3-ethoxy-1-allyl-benzene from 4-hydroxy-3-methoxy-1-allyl-benzene (eugenol) 179

HIROTA, Kozo, and OKAMOTO, Go. Interchange equilibrium between acetylene and heavy water 349

HORIUTI, J., and SAKAMOTO, Y. Isotopic interchange reaction between chloroform and water 627

HOSHINO, Toshio, and SHIMODAIRA, Kenya. Über die Synthese des Bufotenin-methyläthers (5-Methoxy-*N*-dimethyl-tryptamin) und Bufotenins. (Synthesen in der Indol-Gruppe. XV.) 221

HOSHINO, Toshio, and TAKIURA, Kiyoshi. Über die Synthese von Alkoxy- und Oxycarbazole 218

ICHIHARA, Kentaro. See YAMASAKI, Riichiro.

ICHIKAWA, Nobutoshi. Studies on the constitution of shonanic acid, one of the two characteristic volatile acids from the wood of *Libocedrus formosana*, Florin. I. The isolation of shonanic acid and its general properties 759

IINUMA, Hirosi. See NAKATSUKA, Yuichi.

IMOTO, Minoru. See ONO, Kashichi.

IRIE, Tôsi. See MURAKAMI, Masuo.

ISHIKAWA, Tetsuya, and BABA, Toshitomo. A viscosity formula for binary mixtures, the association degrees of constituents being taken into consideration. XII, Summary 8, 64

ISHIKAWA, Tokuzo. See TOYAMA, Yoshiyuki.

ITO, Takeo, SUGINOME, Harusada, UENO, Kiyoshi, and WATANABE, Shigeto. Über die Farbstoffe des Goldröschens, *Kerria japonica*, DC. 770

IWAKIRI, Mitsuo. See FUJISE, Shin-ichiro.

IWAI, Masayoshi. See UENO, Sei-ichi.

IWAMOTO, Kenji. On the derivatives of anthrahydroquinone disulphuric acid esters. I. Synthesis of some azo-compounds 201

IWASE, Ei-ichi. Zur Kenntnis der Fluoreszens von japanischen Hyaliten im ultravioletten Lichte. II. Mitteilung. 377

Über die Verteilung des Lumineszenzträgers im Gipskristall 475

Zur Lumineszenz des Calcits. II. Thermolumineszenzspektren japanischer Calcite 523

Zur Lumineszenz des Calcits. III. Änderung der Fluoreszenzspektren von Calciten durch vorheriges Erhitzen 528

IWASE, Ei-ichi, and KURONUMA, Takehiro. Zur Lumineszenz des Calcits. I. Das Fluoreszenzspektrum japanischen Calcits im ultravioletten Lichte 513

KADOWAKI, Hiroaki. New compounds of urea-formaldehyde condensation products . 248

KANEKO, Takeo. See AKABORI, Shiro.

KASHIMOTO, Shin. See TSUCHIDA, Ryutaro.

KATAI, Kitaro. See OKUDA, Yuzuru.

KAWAI, Sin'iti, and SUGIYAMA, Noboru. Synthesis of β, γ-dihydroxy-propyl-guanidine. 141

KIDOKORO, Meiji. See SAMESHIMA, Jitsusaburo.

KIMURA, Osamu. On the viscosity of the critical mixture of ternary system benzene-alcohol-water 57

KINOSHITA, Kyôji. On the changes of weight of the electrodes of the lead acid storage cell in the course of discharge 504

KOBAYASHI, Masahisa. See TSUCHIDA, Ryutaro.

KOTAKE, Munio, and MITSUWA, Tadahiro. Studies on the structure of strychnin. III. Strychninolone and its derivatives 231

KOYAMA, Ryosei. See UENO, Sei-ichi.

KUBOTA, Bennosuke. See UENAKA, Mioji.

KURODA, Chika, Miss. The constitution of awobanin and awobanol, the colouring matter of awobana and its co-pigment 265

KURODA, Chika, and WADA, Mizu. The constitution of natural colouring matters, kuromamin, shisonin, and nasunin 272

KURONUMA, Takehiro. See IWASE, Ei-ichi.

MASAKI, Kôiti. The normal frequencies of vibration of benzene compounds in the ultraviolet absorption 346

The absorption spectra of nitroglycerine 712

MATSUDA, Ryoichi. The electrolytic formation of persulphate. Part I 1

The electrolytic formation of sodium perborate. Part I 456

MATSUDA, Ryoichi, and NISHIMORI, Teruichi. The electrolytic formation of persulphate. Part II 650

MATSUNO, Kichimatsu, and HAN, Kwan. Studies of the Raman effect of organic substances. V. Raman effect of homocyclic compounds 321

Studies on the Raman effect of organic substances. VI. Raman effect of sesquichamene and some other terpenes 576

MITSUWA, Tadahiro. See KOTAKE, Munio.

MIZUSHIMA, San-ichiro, MORINO, Yonezo, and OKAMOTO, Go. Ramanspektrum von Deuteroäthanol 553

Ramanspektrum von Deuteromethanol 698

MORIKAWA, Ikuo. See HAYASHI. Mosuke.

MORINO, Yonezo. See MIZUSHIMA, San-ichiro.

MORITA, Noriyoshi, and TITANI, Toshizo. Über den Unterschied in der Isotopenzusammensetzung von Luft- und Wassersauerstoff. (Vorläufige Mitteilung.) . 36

Erzeugung des leichten Wassers und Bestimmung der Deuterium-Konzentration im normalen Wasser 403

Über den Unterschied in der Isotopenzusammensetzung von Luft- und Wassersauerstoff und den elektrolytischen Trennfaktor von Sauerstoffisotope . 414

Über den Einfluss des Dichteunterschieds zwischen Luft- und Wassersauerstoff auf die Versuchsergebnisse von Sauerstoff- und Wasserstoffisotope . 419

Über den Gehalt der Kohlenhydrate an schwerem Sauerstoff. (Vorläufige Mitteilung.) 695

MURAKAMI, Masuo, and IRIE, Tôsi. Über ein Umlagerungsprodukt des Fukugetins (Fukugenetin) 288

NAKAMURA, Akira. See TSUCHIDA, Ryutaro.

NAKAMURA, Teruko. A new bacterioxanthophyll, the yellow pigment of *Sarcina lutea*. (Preliminary Report.) 176

NAKATSUKA, Yuichi. Di-8-oxychinolin-innerkomplexsaltz des zweiwertigen Silbers . 45

Über Kobaltiammine, die quartäre Ammoniumbasen koordinieren 629

NAKATSUKA, Yuichi, and IINUMA, Hirosi. Über Didimethylglyoxim-diammin-kobalt (III)-salze und ihre Konfiguration 48

Versuche zur Aktivierung von Komplexsalzen, die ein durch Bindung an das Zentralatom entstandenes asymmetrisches Stickstoffatom enthalten . . . 353

Beiträge zur Kenntnis der komplexchemischen Ringsysteme mit Para-Bindung. I. *p*-Oxybenzaldehyd-*o*-phenylendiimin- und Vanillin-*o*-phenylendiimin-kupfer 358

NISHIMORI, Teruichi. See MATSUDA, Ryoichi.

NODZU, Ryuzaburo, and GOTO, Ryozo. The action of weak alkalies upon glucose. I . 381
NOGUCHI, Tadao. See YAMADA, Keisuke.
NOZOE, Tetsuo. Über die Farbstoffe im Holzteile des "Hinoki"-baumes. I. Hinokitin und Hinokitiol. (Vorläufige Mitteilung.) 295
NUMANO, Shinji. See AKABORI, Shiro.

ÔEDA, Haruomi. Action of liquid ammonia upon aceton-compounds of α-hydroxy-acids 385
OGATA, Terutaro. Über Cyaninfarbstoffe. VIII. Eine neue Synthese von 8-Methyltrimethinthiocyanin-derivaten und über die Reaktionsfähigkeit der 8-Methylgruppe 262
OGAWA, Eijiro. The exchange reactions between heavy water and hydrogen compounds 310
The exchange reactions between heavy water and amino acids and carbohydrates 367
The mechanism of the isotopic exchange reactions 425
The isotopic separation of oxygen, chlorine, bromine, and nitrogen by the chemical methods 428
OIWA, Koichi. See YAMADA, Keisuke.
OKABE, Kenzo. See TITANI, Toshizo.
OKAHARA, Kunio. Über die in den Blättern von *Ficus Carica* enthaltenen Bestandteile 389
OKAMOTO, Go. See HIROTA, Kozo; MIZUSHIMA, San-ichiro.
OKUDA, Yuzuru, and KATAI, Kitaro. Chemical studies on canned meats. II. On the contents of gases and metals in stored cans 715
Chemical studies on canned meats. III. Carbon dioxide and hydrogen gases produced at canning and in storage 718
OKUYAMA, Minoru. See SHIBATA, Rin-nosuke.
ONO, Kashichi, and IMOTO, Minoru. Synthesis of vanillin from cresols. I. Synthesis of homopyrocatechin 127
ONO, Kashichi, and OYAMADA, Taichiro. On the reaction between cresols and hydrogen peroxide in the presence of ferrous sulphate 132
OYAMADA, Taichiro. See ONO, Kashichi.

SAITO, Kojiro, and SUGINOME, Harusada. On the alkaloids of white hellebore. II. Isolation of alkaloids from the so-called resinous matters 168
SAITO, Kojiro, SUGINOME, Harusada, and TAKAOKA, Michio. On the alkaloids of white hellebore. III. Experiments on the constitution of jervine 172
SAKO, Shin-ichi. 4,5-Bis-(*m*-aminophenyl)-carbazole 144
SAKURAI, Buhei. Electrolytic reduction of *N*-methylsuccinimide and *N*-ethylsuccinimide 41
Electrolytic reduction of pyrrole 374
SAMESHIMA, Jitsusaburo, KIDOKORO, Meiji, and AKAMATU, Hideo. Studies on the oiliness of liquids. I. Measurements of the static friction coefficients . . . 659
SAMESHIMA, Jitsusaburo, and SASAKI, Tsunetaka. Studies of monomolecular films by the ripple method. I 539

SAMESHIMA, Jitsusaburo. See also AKAMATU, Hideo; SASAKI, Tsunetaka.
SASAKI, Tsunetaka. On the stability of foam 797
See also SAMESHIMA, Jitsusaburo.
SASAKI, Tsunetaka, and SAMESHIMA, Jitsusaburo. Studies of monomolecular films by the ripple method. II 547
SATA, Naoyasu. Über die Kolloidsynthese durch Dampfexplosionen und die kolloidchemischen Untersuchungen der durch diese Methode hergestellten dispersen Systeme 443, 481, 598
SHIBATA, Rin-nosuke, and OKUYAMA, Minoru. Über die Produkte der Einwirkung von Monochloressigsäure auf Naphtole 117
SHIMODAIRA, Kenya. See HOSHINO, Toshio.
SUGINOME, Harusada, and UMEZAWA, Sumio. Synthetische Versuche in der Selenophengruppe. I. Einwirkung von Chlor und Brom auf Selenophen 157
SUGINOME, Harusada. See also ITO, Takeo; SAITO, Kojiro.
SUGIYAMA, Noboru. See KAWAI, Sin-iti.
SUMINOKURA, Kunihiko. Über die Laccase des Japanischen Lacks. II. Über die Reagierbarkeit der Laccase gegen Polyphenole und Diamine 299
TADOKORO, Tetsutaro. Influences of hydrogen-acceptor on fucose fermentation by *Aspergillus oryzae* 239
TAKAOKA, Michio. See SAITO, Kojiro.
TAKAYAMA, Yoshitaro. Studies on amino-acids and related compounds. IX. Electrolytic oxidation of proline and γ-amino-butylic acid 138
TAKEBAYASHI, Matsuji. See URUSHIBARA, Yoshiyuki.
TAKIURA, Kiyoshi. See HOSHINO, Toshio.
TAMAMUSHI, B., and UMEZAWA, H. Über die heterogene Reaktionskinetik der Umwandlung von Dibrombernsteinsäure in Monobromfumarsäure 667
TAMURA, Kunisaburo. Studies on the structure of asebotin, a component of *Andromeda japonica* Thumb 781
TANAKA, Munenari. Gewinnung der festen Fiber aus Reisstroh 35
TANNO, Tsuneharu. Über die katalytische Hydrierung von Rohrzucker. I. Hydrierung von Rohrzucker mit reduziertem Nickel als Katalysator 204
TITANI, Toshizo, and OKABE, Kenzo. Über den Gehalt des Salzwassers aus Petroleumquellen an schwerem Wasser. I 593
TITANI, Toshizo. See also HARADA, Masao; MORITA, Noriyoshi.
TOYAMA, Yoshiyuki, and AKIYAMA, Goroku. The highly unsaturated alcohols in sperm blubber oil 29
TOYAMA, Yoshiyuki, and ISHIKAWA, Tokuzo. Dihydroxystearic acid in castor oil . 735
TOYAMA, Yoshiyuki, and TSUCHIYA, Tomotaro. Decenoic acid $C_{10}H_{18}O_2$ in sperm head oil 26
The highly unsaturated acids in sardine oil. XII. A further experiment on the separation of octadecatrienoic acid $C_{18}H_{30}O_2$ 741
The highly unsaturated acids in sardine oil. XIII. Oxidation of methyl clupanodonate with potassium permanganate in acetone solution 745
The highly unsaturated acids in sardine oil. XIV. Oxidation of potassium clupanodonate with potassium permanganate in aqueous solution 751

TSUCHIDA, Ryutaro. Spectrographic methods of studying unstable compounds. II. The aquotization of trans-dichlorotetrammine cobaltic chloride in aqueous solutions 721

TSUCHIDA, Ryutaro, and KASHIMOTO, Shin. The third absorption bands of co-ordination compounds. I. $[Co(NH_3)_4ClNO_2]Cl$ and $[Co(NO_2)_6]Na_3$ 785

TSUCHIDA, Ryutaro, KOBAYACHI, Masahisa, and NAKAMURA, Akira. The configuration of chlorobisdimethylglyoximoammine-cobalt 38

TSUCHIYA, Tomotaro. See TOYAMA, Yoshiyuki.

TSURUOKA, Sinzo. See HAYASHI, Mosuke.

TSUZUKI, Yojiro. Synthese einiger Brückenderivate der Weinsäure durch Acetalisierung ihrer Ester mit Aceton, Acetaldehyd und Formaldehyd 362

Optical rotatory dispersion of some bridged derivatives of alkyltartrates . . 586

UENAKA, Mioji, and KUBOTA, Bennosuke. On the formation of symmetrical dibenzocyclo-docosane-dione 19

UENO, Kiyoshi. See ITO, Takeo.

UENO, Sei-ichi, and IWAI, Masayoshi. On the oil of hokke (*Pleurogrammus monopterygius*, Pallas), with special reference to the occurrence of new highly unsaturated C_{28}-fatty acids 643

UENO, Sei-ichi, and KOYAMA, Ryosei. On the occurrence of many new constituents in the unsaponifiable matter of sperm blubber oil 394

UENO, Sei-ichi, and YONESE, Chizuo. On the occurrence of new highly unsaturated fatty acids, $C_{26}H_{40}O_2$ and $C_{26}H_{42}O_2$, in tunny oil 437

UMEZAWA, H. See TAMAMUSHI, B.

UMEZAWA, Sumio. Synthetische Versuche in der Selenophen-Gruppe. II. Nitrierung und Sulfonierung 775

UMEZAWA, Sumio. See also SUGINOME, Harusada.

URUSHIBARA, Yoshiyuki, and ANDO, Toshio. The formation of cholestanedione-(3,6) from cholestenone dibromide and from Δ^4- and Δ^5-cholestenones 434

The formation of an isomeride of neoergosterol by the pyrolysis of ergopinacone 757

The photochemical dehydrogenation of 7-dehydro-cholesterol 802

URUSHIBARA, Yoshiyuki, and TAKEBAYASHI, Matsuji. The nitrile-esters of 2-methylpropene-1,1,3,3-tetracarboxylic acid 557

The electrolytic dissociation of 1,1,3,3-tetracyano-propene and 1,1,3,3-tetracyano-2-methylpropene 569

The addition of hydrogen bromide to allyl bromide in the presence of various substances. I 692

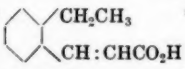
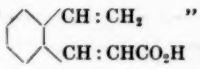
The addition of hydrogen bromide to allyl bromide in the presence of various substances. II. Further experiments on the effects of ferro-magnetic catalysts 754

The addition of hydrogen bromide to allyl bromide in the presence of various substances. III. A contribution to the elucidation of the so-called peroxide effect 798

YAMADA, Keisuke, NOGUCHI, Tadao, and OIWA, Koichi. Studies on quinoxaline colours 225
YAMASAKI, Kazuo. Über die katalytischen Oxydationswirkung der Metallkomplexverbindungen. XI. Katalytische Oxydation in schwerem Wasser 431
YAMASAKI, Riichiro, and ICHIHARA, Kentaro. On the composition of rape seed oil . 114
YAMASAKI, Shigeaki. Über die Dampfphasehydrolyse 43
YONESE, Chizuo. See UENO, Sei-ichi.

WADA, Mizu. See KURODA, Chika.
WATANABE, Shigeto. See ITO, Takeo.

CORRECTIONS TO VOLUME 11, 1936.

Page	Line	
19	Formula XVII	*for* "  " *read* "  "
22	4	*omit* "(9)"
25	1	*for* "reside" *read* "residue"
32	4	*for* "catadonyl" *read* "catodonyl"
,,	Foot-note	*for* "Catadontidae" *read* "Catodontidae"
55	24	*for* "erfolderlich" *read* "erforderlich"
474	20	*for* "Pyrol" *read* "Pyrrol"
552	23	*for* "occurs" *read* "occur"
591	8	*omit the comma after* "cited"
693	17	*for* "umfangreichen" *read* "umfangsreichen"
713	Foot-note	*for* "divideded" *read* "divided"
723	5, 7	*for* "aparture" *read* "aperture"
733	Table 8	*for* "$[Co(NH_3)_4ClH_2O\binom{(1)}{(2)}]Cl$" *read* "$[Co(NH_3)_4ClH_2O\binom{(1)}{(2)}]Cl_2$"
734	12	*for* "acqueous" *read* "aqueous"
,,	16	*for* "salt" *read* "salts"
,,	19	*for* "hypsoehromic" *read* "hypsochromic"